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Quantitative risk assessment of slope failure in 2-D spatially variable soils by limit equilibrium method

Shui-Hua Jiang , Jinsong Huang , Chi Yao , Jianhua Yang

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**Highlights:**

1. An efficient approach is proposed for risk analysis of spatially variable slopes.
2. An empirical method is developed to identify representative slip surfaces.
3. A two-layered soil slope is studied to illustrate the proposed approach.
4. The risk of slope failure can be accurately evaluated with much less efforts.
5. The contribution of each failure mode to the risk can be effectively quantified.

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